

Building Catalogue for
Fibrolite
ASBESTOS-CEMENT
Sheets and Slates



JAMES HARDIE & COY. LTD.
SOLE MANUFACTURERS.



Catalogue for Hardie's

Fibrolite

Asbestos Cement Sheets

Asbestos Cement Slates

Corrugated Roofing Sheets

"FIBROLITE" Asbestos Cement Building Products are manufactured at our large, modern Works at Rivervale (West Australia), Camellia (N.S.W.), and Brooklyn (Victoria).

All our "FIBROLITE" Asbestos Cement Works are situated adjacent to the railway line, and have connecting private sidings running right into the heart of the works. This enables consignments of "FIBROLITE" to be carefully loaded direct into railway trucks under the personal supervision of our Works Managers. At Camellia the situation of the Works is even more ideal. Having a deep water frontage to the historic Parramatta River, all shipping orders can be placed on lighters for loading direct into steamers.

"FIBROLITE" Asbestos Cement Sheets and Slates are stocked by leading Hardware Merchants, Timber Merchants, and Storekeepers throughout Australia and New Zealand.

SOLE MANUFACTURERS OF "FIBROLITE"

James Hardie & Coy. Ltd.

R I V E R V A L E

PERTH WEST AUSTRALIA

Also at Sydney, Melbourne, Adelaide, Brisbane, and Wellington, New Zealand

Telegraphic Address: "FIBROLITE," Perth.

Telephone: A 1636.

Foreword



IT has been taken for granted that the people who will ask for this catalogue are those who desire to build a permanent, attractive, and durable dwelling at the minimum of cost. To most of us "Cost" is a vital element in building, and we want to be sure that what we are getting is commensurate with the price we pay. It is therefore to those who are interested in genuine economy in building that this catalogue is devoted.

In preparing this catalogue endeavour has been made to convey to readers as briefly as possible the many advantages that are obtained by building completely with "FIBROLITE." Any desired information that may have been omitted will be supplied on request.

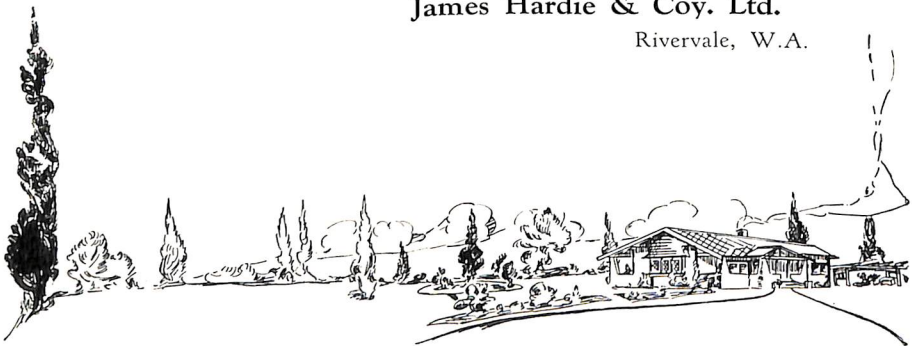
This Company does not erect "FIBROLITE" Asbestos Cement Dwellings or undertake any building construction work. Any builder in your district will give you an estimate for building a "FIBROLITE" dwelling or any other type of building with exterior walls, interior walls, and ceilings of "FIBROLITE" Asbestos Cement Sheets and roofed with "FIBROLITE" Slates or Corrugated Sheets.

Included in this catalogue are a number of illustrations and ground plans of "FIBROLITE" Asbestos Cement Homes. Estimates for the approximate quantity of "FIBROLITE" Asbestos Cement Sheets and Slates required in the construction of any of these dwellings, or to client's own plans, will be supplied on request.

Samples of "Fibrolite" Asbestos Cement Sheets, "Fibrolite" Slates in the various shades, and "Fibrolite" Corrugated Roofing will be forwarded on request to any address, post free.

James Hardie & Coy. Ltd.

Rivervale, W.A.



"Fibrolite" Contains No Vegetable Matter

Fibrolite

Asbestos-Cement

The Material and its Uses:

"FIBROLITE" is a hard, durable, serviceable, and economical building material, manufactured solely from specially selected Asbestos Fibre and the best Portland Cement, into various classes of building materials, viz.:—

"FIBROLITE" Asbestos Cement Flat Sheets:

For covering exterior walls, interior walls, ceilings, partitions, gable ends, for lining under eaves, etc.

Thicknesses:

"FIBROLITE" Flat Sheets are manufactured in 36 stock sizes, as detailed on page 32, and two standard thicknesses, viz.:—

For Exterior Walls:—No. 5 Sheets, 3/16in. thick.

For Interior Walls

and Ceilings—No. 4 Sheets, 5/32in. thick.

NOTE:—"Fibrolite" Flat Sheets are made to order in any required thickness up to $\frac{3}{4}$ in. in sizes shown on page 32.

"FIBROLITE" Asbestos Cement Slates and Shingles:

For roofing residences, shops, churches, theatres, and buildings of practically every type of construction. For sizes, see pages 23 and 32.

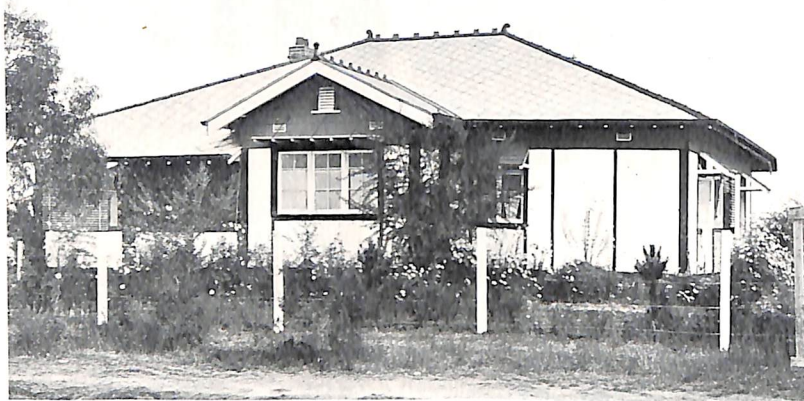
"FIBROLITE" Corrugated Roofing Sheets:

The ideal roofing for factories, large industrial works, shearing sheds, butter factories, dairy buildings, motor garages, etc. For sizes, see page 32.

How "Fibrolite" is Manufactured:

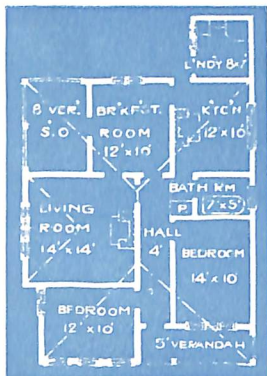
"FIBROLITE" is manufactured under Hardie's exclusive process solely from the best Australian Portland Cement and long, tough Asbestos Fibre—two indestructible materials of mineral extraction. "FIBROLITE" contains nothing to rot, rust, corrode, disintegrate, or burn, *as absolutely no vegetable matter is used in its manufacture.*

"FIBROLITE" is made on a scientific laminated process, being built up layer upon layer in a formation resembling that of the leaves of a book. During the process of manufacture the long, tough Asbestos Fibre is evenly distributed and interwoven throughout each layer of the cement, ensuring maximum strength and toughness in the finished product. The cement "sets" around the Asbestos Fibre, which strongly reinforces the sheets in exactly the same manner as interwoven steel rods or wires reinforce a concrete wall. This setting action, or "crystallization," goes on for years, the "Fibrolite" all the while growing harder, tougher, stronger, and more impenetrable. Made thus of two indestructible, fire-proof materials of mineral extraction, "FIBROLITE" is a permanently durable building material, proof against the ravages of time, white ants, borers, rot, and corrosion.



“Fibrolite” is used for Buildings of Every Type

For Walls, Ceilings, Etc., and Roofing



Ground plan suitable for cottage illustrated above. Estimate of cost for “Fibrolite” required for this dwelling supplied on request.

durability of “FIBROLITE” that this class of roofing is so extensively used by Government Departments in every State of the Commonwealth.

No matter what type of building you propose erecting, “FIBROLITE” can be used to advantage in its construction. Send us a rough sketch of the ground plan of your proposed building and we shall submit estimate of cost of “FIBROLITE” Sheets required for its exterior and interior walls and ceilings and “FIBROLITE” Slates for roofing.

It may safely be claimed that during the past twenty-five years no building material has been so successfully used for so many different purposes as Asbestos Cement Sheets. In all parts of the Commonwealth, New Zealand, and the Pacific Islands “FIBROLITE” Asbestos Cement Sheets are extensively used for covering exterior walls, interior walls, ceilings, gables, partitions, verandah balustrades, for lining under eaves, etc., in such buildings as residences, week-end cottages, shops, theatres, offices, churches, warehouses, motor garages, dairy buildings, butter factories, shearing sheds, workers’ accommodation huts, fruit stores, poultry houses, etc.

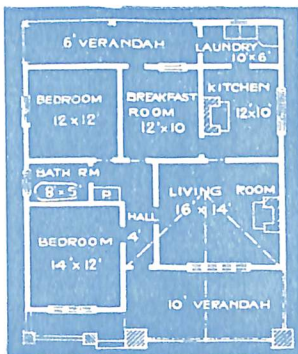
“FIBROLITE” Asbestos Cement Slates, Shingles, and Corrugated Sheets are used for roofing buildings of every type of construction.

It is owing to the sound economy and proven



Advantages Obtained by Building with "Fibrolite" Sheets

Sound Economy for Walls and Ceilings



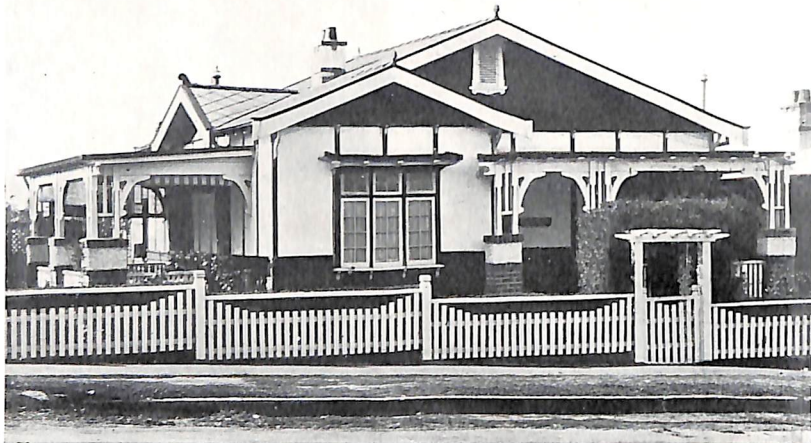
Ground plan suitable for cottage illustrated above. Estimate of cost for "Fibrolite" required for this dwelling supplied on request.

Being soundly economical in every phase of its use, "Fibrolite" is the ideal building material for the home-builder of moderate means. It ensures a greater degree of economy than can be obtained by the use of any other building material. Not only is "Fibrolite" economical in "first cost," it ensures maximum economy throughout years of dependable, trouble-free service. It improves with age.

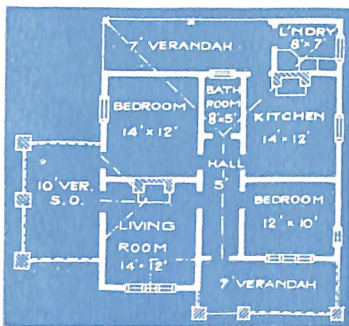
"FIBROLITE" shows you a saving in initial costs. It ensures bedrock economy in the building of the home, because "Fibrolite" comes to you in big, sturdy building sheets that are quickly erected without waste, and at a minimum cost for labour.

Even after the home is erected the economy of "Fibrolite" continues—indeinitely. Maintenance costs are practically eliminated. There are no heavy annual costs for painting and repairs. Added to this economy is the 25 per cent. concession in insurance premiums off rates applying for weatherboard houses.

Closely allied with the sound economy of "Fibrolite" is its wonderful durability, its unique fire retardant qualities, its artistic appearance, and its resistance to white ants, borers, rot, rust, corrosion, weather, and all conditions of dampness.



"Fibrolite" Sheets are White Ant and Borer Proof



Ground plan suitable for cottage illustrated above. Estimate of cost for "Fibrolite" required for this dwelling supplied on request.

One of the most important advantages obtained by using "FIBROLITE" for walls is that it is proof against white ants and borers—the ever-present menace to the house built with weatherboards and lining boards.

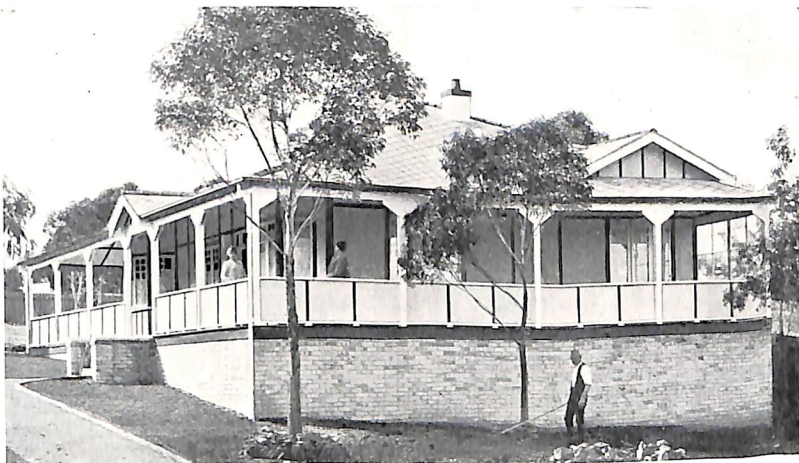
Contains no Vegetable Matter:

Unlike fibrous plaster sheets and paper pulp wall boards, "Fibrolite" contains no vegetable matter to rot or corrode. It is for this reason that "Fibrolite" is unaffected by conditions of dampness that are so ruinous to walls and ceilings

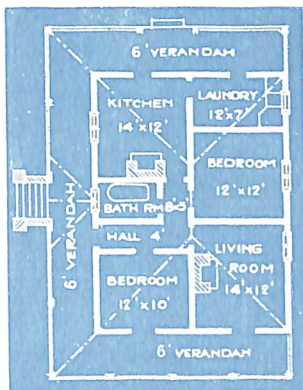
lined with plaster or paper pulp materials. In addition, "Fibrolite" has an exceptionally hard surface and is therefore not so liable to surface scratches and fractures.

Rust Proof:

"FIBROLITE" Asbestos Cement Sheets are not only cooler than steel linings, but have the greater advantage of being proof against rust and corrosion. It is owing to this that "Fibrolite" is so eminently suitable for lining ceilings under roofs that are subject to condensation. Everywhere one sees ceilings of awnings, pavilions, and verandahs lined with "Fibrolite." It may safely be claimed that no ceiling material is so immune to troubles from dampness as "Fibrolite."



"Fibrolite" Sheets Meet all Climatic Conditions



Ground plan suitable for cottage illustrated above. Estimate of cost for "Fibrolite" required for this dwelling supplied on request.

In Central Australia, the Northern Territory, and throughout the Pacific Islands, where the heat during the summer months is intense, "Fibrolite" is extensively used for walls and ceilings of residences, schools, churches, and buildings of every type.

In the far southern districts of New Zealand, where extremely cold conditions prevail during the winter months, "Fibrolite" is largely used for exterior and interior walls and ceilings of residences and various other types of buildings.

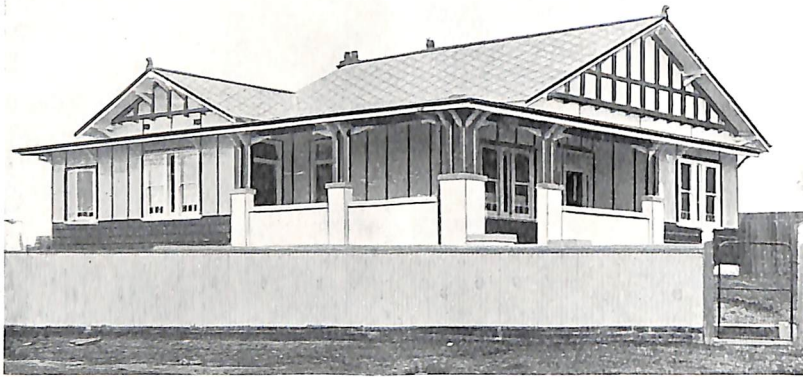
Here is proof that "Fibrolite" is the ideal building material for all climates—that it meets climatic conditions that vary to extremes.

"Fibrolite" is Hygienic:

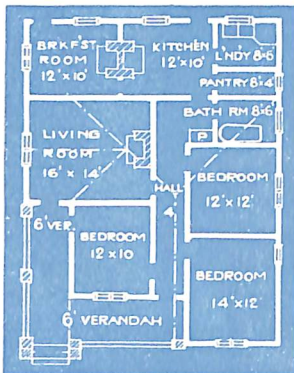
"Fibrolite" Asbestos Cement Sheets provide the most hygienic wall covering, as there are no crevices or lodging places for dirt, germs, or vermin. For this reason "Fibrolite" is extensively used for hospitals and health sanitariums.

"Fibrolite" Ensures Best Results:

Utmost satisfaction on the completion of your new home will depend largely upon the use of the best materials in its construction. This will be assured if you insist on **HARDIE'S GENUINE "FIBROLITE"** Asbestos Cement Sheets. Do not accept a substitute. The genuine "FIBROLITE" is made solely by James Hardie & Coy. Ltd. under Hardie's exclusive process, which ensures a great tensile strength, maximum durability, and uniform high quality.



"Fibrolite" Homes Cost Less than Weatherboard Houses



Ground plan suitable for cottage illustrated above. Estimate of cost for "Fibrolite" required for this dwelling supplied on request.

The total erected cost of a "Fibrolite" Asbestos Cement dwelling is, in most parts of Australia, less than the cost of a house of same size and design built with weatherboards and lining boards. It is not possible, however, to give figures for comparison in this catalogue owing to variations in the cost of timber, labour, etc., in the various centres.

The cost of "Fibrolite" Asbestos Cement Sheets per square (of 100 square feet) for material alone is, in most districts, considerably less than the cost of weatherboards and lining boards.

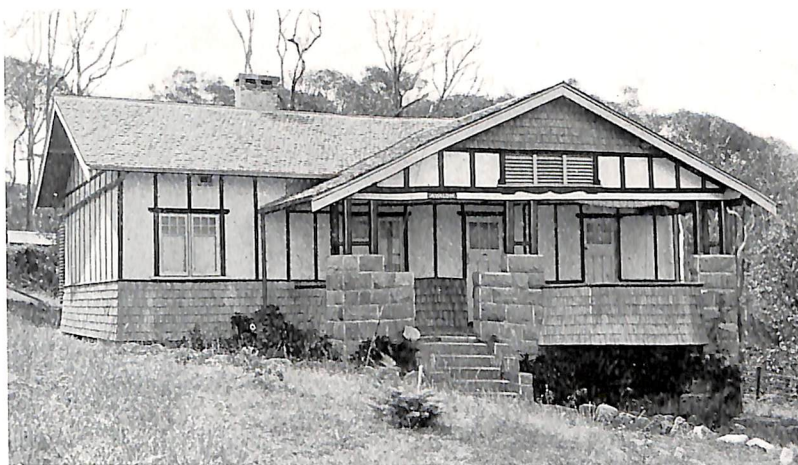
Saving in Studs:

Owing to the rigidity of "Fibrolite" Asbestos Cement Sheets, the studs and/or joists need only be spaced at 24in. centres, whereas with weatherboards and lining boards it is necessary to space the studs at 18in. centres to ensure satisfaction. Consequently, there is a saving in studs and/or joists of 25 per cent. where "Fibrolite" Asbestos Cement Sheets are used for walls and ceilings.

No Waste:

"FIBROLITE" Asbestos Cement Sheets being manufactured in 36 convenient stock sizes (see page 32), it is possible to eliminate waste altogether where this material is used for covering exterior and interior walls and ceilings.

"Fibrolite" Eliminates Waste



“Fibrolite,” being Easily Erected, Reduces Labour Costs



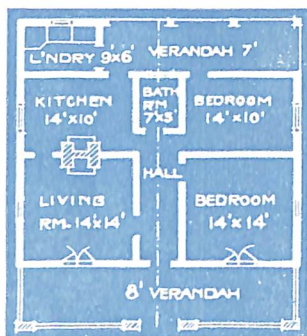
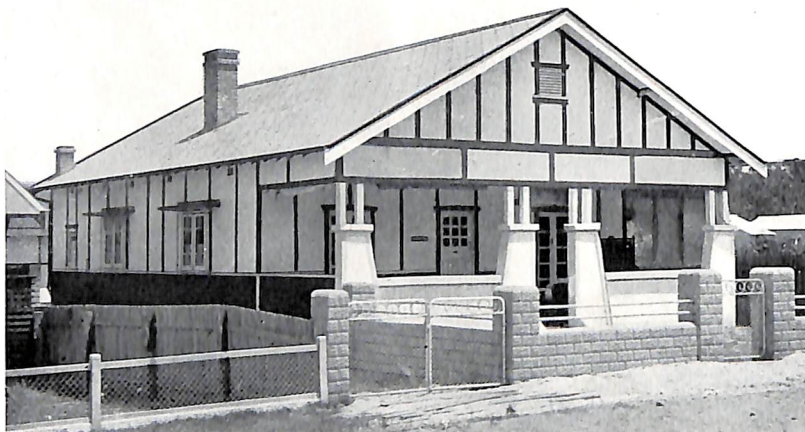
No special knowledge is required to fix “Fibrolite” Asbestos Cement Sheets (see page 19).

“FIBROLITE” comes to you in big, rigid building sheets that are handled, sawn, nailed, and fixed more easily than timber. Quick construction is ensured, as the sturdy “Fibrolite” panels are simply nailed direct to the wall studs and/or ceiling joists, cover battens being used over the joints between the sheets to give the desired panel effect.

The simplicity of its construction enables a “Fibrolite” Asbestos Cement dwelling to be built without the aid of special skilled labour—a big factor for consideration in outlying country districts.

“Fibrolite” Ensures Economical Construction :

Being obtainable in 36 handy stock sizes (see page 32) the cost of fixing “Fibrolite” Asbestos Cement Sheets is considerably less than the cost of fixing weatherboards and lining boards, which are only about 6in. in width. For example, to cover a wall 32ft. long by 10ft. high all that is required are eight sheets of “Fibrolite” 10ft. x 4ft., which can be erected in considerably less time than is necessary to fix either weatherboards or lining boards.



Ground plan suitable for cottage illustrated above. Estimate of cost for "Fibrolite" required for this dwelling supplied on request.

No Painting:

As it is not necessary to paint "Fibrolite" to protect it from the elements, this item of expense can be entirely eliminated. When it is desired to colour "Fibrolite" with a view of further decoration, all that is necessary is an application of "Fibro-C" Cold Water Paint, the cost of which is only about half the cost of painting weatherboards and lining boards with expensive oil paints.

Low Upkeep Costs:

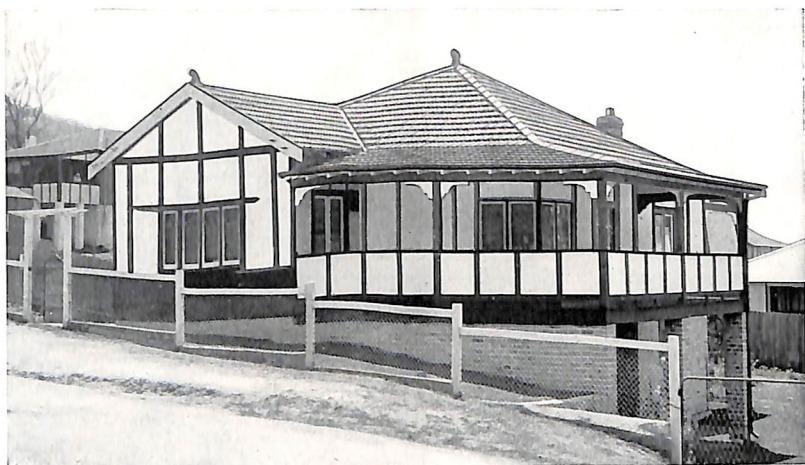
With the home built completely of "Fibrolite," maintenance costs are practically eliminated. Unlike a weatherboard house, the "Fibrolite" dwelling improves with age. It is not necessary to paint it every two or three years to protect it from the elements. Its first cost is its last cost.

Low Freight:

"FIBROLITE" is carried by the West Australian Railways Department at very favourable rates of freight, enabling "Fibrolite" Homes to be erected in the country for very little extra cost over and above the cost in the near suburbs of the city. In fact, large quantities of "Fibrolite" can be sent by rail for 200 or 300 miles at practically the equivalent of cartage to the outlying suburbs of the city (see page 31).

The Most Economical Home:

From information given in the preceding pages it will be seen that the cost of a "Fibrolite" Asbestos Cement Home is less than the cost of a weatherboard house. Compared with bricks, the erected cost of "Fibrolite" is considerably less, notwithstanding that the advantages derived from a "Fibrolite" dwelling are equal in every respect to the advantages derived from the much more expensive brick building.



“Fibrolite” Minimises Fire Risks and thus Enjoys Reduced Insurance Rates

The huge annual fire loss in Australia provides abundant evidence of the necessity of building fire-retardant dwellings. Fire loss is a dead loss—one which cannot be retrieved. And as the fire loss increases insurance rates increase with it, not only on the careless man's house, but on yours as well, for you must pay the penalty of his indifference. Fire in his house might easily spread to yours. You are at his mercy.

By building your new home with exterior and interior walls and ceilings of “Fibrolite” Asbestos Cement Sheets you will not only reduce to a minimum the risk of fire occurring in your own dwelling, but you will have an effective barrier to retard the onslaught of fires that may occur in homes on either side of your own.

On pages 12 and 13 of this catalogue particulars are given of specific instances where our Asbestos Cement Sheets have retarded the progress of serious conflagrations. These are merely two of hundreds of such cases. Many other such instances have been brought under notice where the use of “Fibrolite” has been the means of effectively retarding the progress of a fire and the saving of a considerable amount of property.

Big Insurance Concession :

Insurance companies, recognising the unique fire retardant qualities of “Fibrolite,” allow a considerable reduction in rates for dwellings or other buildings where “Fibrolite” Asbestos Cement Sheets are used in place of weatherboards and lining boards. In West Australia this concession amounts to 25 per cent.



How "Fibrolite" Retards the spread of Fire



The above illustration provides convincing evidence of the wonderful fire-retardant qualities of our Asbestos Cement Sheets.

The lower storey of this building was of brick, whilst the exterior walls of the upper storey were roughcast on wooden laths and wire netting, the interior wall linings and partitions being of our Asbestos Cement Sheets, whilst the ceilings were of plaster.

During the night the cottage adjoining this hospital caught fire and the flames quickly spread to the roof of this building. The burning roof fell through the plaster ceiling, quickly igniting the furniture, and making the whole of this storey of the building a seething mass of flames.

After the fire was under control it was found that the Asbestos Cement Sheets, as shown in the above illustration, had completely protected the studs used in the interior walls of the upper storey, and also the exterior walls, which suffered no more than the brick walls below.

Ensure Adequate Fire Protection :

When deciding on the materials to be used for the exterior and interior walls and ceilings of that new home you are planning, give careful consideration to the fire menace. Consider, too, that "Fibrolite" will enable you to build a fire-retardant dwelling at lower cost than can be obtained by the use of any other building material.

Convincing Evidence of the Fire Retardant Qualities of "Fibrolite"

The bushfires which swept Noojee and other districts in Victoria during the summer of 1926 will always be remembered as the most tragic in the history of Australia. Before the terrific onslaught of the raging fires homes and other buildings constructed of timber were swept away like matchwood. It was while seeking shelter in these buildings that many people lost their lives.

Read the following letter from Mr. S. W. Smith, Proprietor of the Noojee Hotel, in which he tells how "FIBROLITE" Asbestos Cement Sheets withstood the raging inferno that surrounded his hotel:—

*Noojee Hotel,
Noojee,
20th March, 1926.*

Messrs. James Hardie & Coy. Ltd.

Dear Sirs,

I beg to add my quota of praise to your already well-known and appreciated "FIBROLITE."

The first storey of this hotel is constructed of brick and the second of "FIBROLITE." During the night of the fires on black Sunday, February 14th, the hotel was surrounded by a raging mass of flame which came up to the very doors. The heat was so intense that a great number of the tiles on the roof cracked. Without doubt, had the walls been built of wood nothing could have saved the place. The majority of the townspeople were sheltered here, and had the hotel caught fire a catastrophe would have happened that would have staggered Australia.

I may say that I am building some houses here and am using "FIBROLITE" walls, as I consider them as impervious to fire as brick.

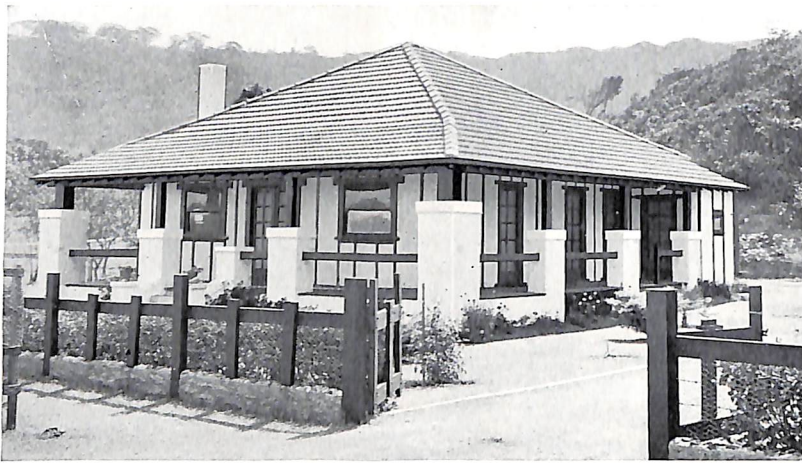
I am,

Yours sincerely,

*(Signed) S. W. SMITH,
Proprietor.*

Minimise the fire risk and ensure adequate protection for your family against fire fatalities by building your new home with "FIBROLITE" Asbestos Cement Sheets and roofing with "FIBROLITE" Slates.





“Fibrolite” Exterior Walls

Methods of Treating

No. 1 Method—All “Fibrolite” Treatment:

From viewpoints of artistic appearance, fire safety, and durability, the most satisfactory method of treating exterior walls of “Fibrolite” dwellings is that of covering the entire area of the walls with “Fibrolite” Asbestos Cement Sheets, as shown by above illustration and illustrations on pages 4, 7, and 27. If the panels are evenly divided into sections of 3 feet or 4 feet, a most attractive appearance is obtained.

No. 2 Method—Half-timbered Effect:

Another method of treating exterior walls of “Fibrolite” dwellings is that of using rusticated weatherboards to window sill height with “Fibrolite” Sheets above, as shown by illustrations on pages 5, 6, 8, 10, and 11. Although this treatment is popular, it does not ensure the same degree of durability as walls covered entirely with “Fibrolite.”

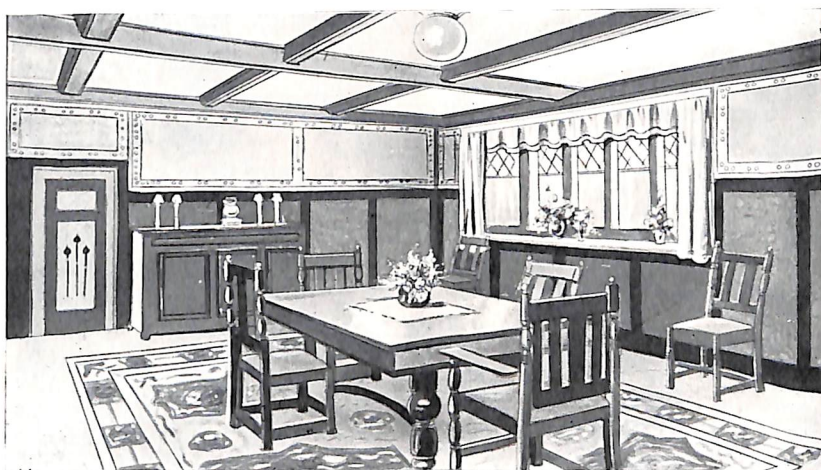
No. 3 Method—Roughcast Treatment:

If it is preferred to finish the exterior walls of a “Fibrolite” dwelling without the use of cover battens, these may be entirely eliminated by roughcasting over the entire area of the “Fibrolite” walls with a mixture of cement, sand, and fine coke breeze, as described on page 20. Very little additional expense over either No. 1 or No. 2 treatments is incurred, as the extra cost for the roughcasting is practically covered by the elimination of the cover battens and painting. From illustrations of roughcast “Fibrolite” cottages shown on pages 20, 21, and 22, it will be seen that by treating “Fibrolite” walls in this manner exactly the same appearance is obtained as with a roughcast brick or stone cottage.

Decorative Treatment:

If it is desired to paint “Fibrolite” Exterior Walls for decorative purposes, this may be carried out with “Fibro-C” Cold Water Paint in white, stone, cream, or other shades.

“Fibrolite” is Made in any Thickness up to $\frac{3}{4}$ in.



Interior Walls and Ceilings

Various "Fibrolite" Treatments

Artistic Panel Effects:

By using "Fibrolite" Asbestos Cement Sheets for lining interior walls and ceilings a wide range of highly artistic panel effects may be obtained at minimum cost. Panel suggestions given on pages 17 and 18 illustrate in a general way how panel effects of "Fibrolite" Walls and Ceilings may be varied for different rooms. "Fibrolite" will enable you to plan the panelling of your walls and ceilings to express your own individual ideas and taste in the interior treatment of your home.

Charming Colour Schemes:

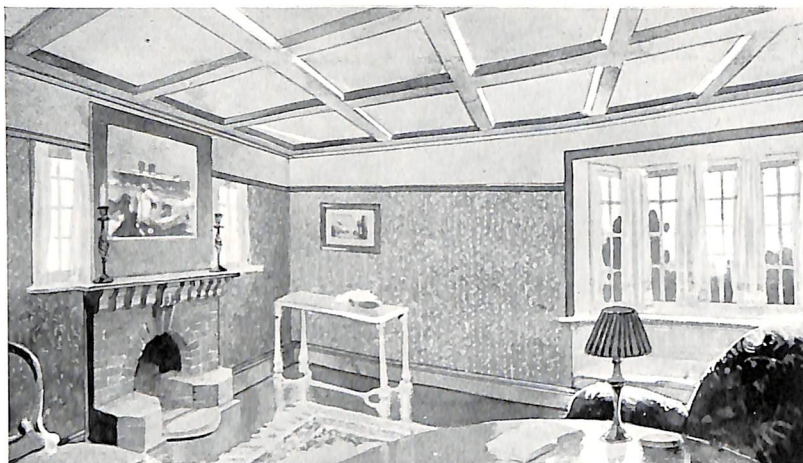
Endless combinations of colour are possible with walls and ceilings lined with "Fibrolite" Asbestos Cement Sheets. By using "Fibro-C" Cold Water Paint the most delicate colour schemes may be carried out at an extremely small cost. There are twenty-three delicate colour tones from which you may select.

Ceiling Treatments:

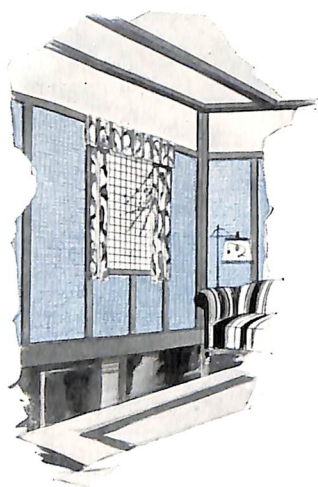
With ceilings lined with "Fibrolite" Asbestos Cement Sheets many charming panel treatments are obtained at small cost. Heavy beam treatments are just as easily secured as light effects with small cover battens. The cover battens may be stained in dark tones to give a mission effect, or, if preferred, painted or enamelled an ivory white to secure a ceiling that is uniformly white in appearance.

The Ideal Interior Lining:

For every room in the home "Fibrolite" meets every requirement of beauty in the treatment of walls and ceilings, as well as every condition of durability and hygiene. Its remarkably low cost enables even the most modest home-builder to use it and thus obtain for his home all the advantages that "Fibrolite" ensures.



Artistic Wall Paper Interiors Obtained with "Fibrolite"



By using wall paper on interior walls lined with "Fibrolite" a wide range of artistic treatments is obtained.

Many pretty panel effects may be secured, similar to the coloured illustration on this page. Artistic treatments are also obtained by using wall paper over the "Fibrolite" Sheets to picture rail height, eliminating the use of cover battens, as shown in the illustration above. The "Fibrolite" frieze above the picture rail is then tinted in an appropriate colour with "Fibro-C" Cold Water Paint.

Directions for applying Wall Paper to "Fibrolite":

To ensure the most satisfactory results, "Fibrolite" walls to be covered with wall

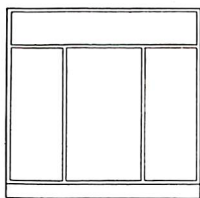
paper should first be given a coat of ordinary glue sizing.

All joints in area to be papered should be covered with narrow strips of unbleached calico and the entire area of the walls then covered with a cheap lining paper, which should be applied horizontally—across the wall, not down. The wall paper is then applied in the usual way.

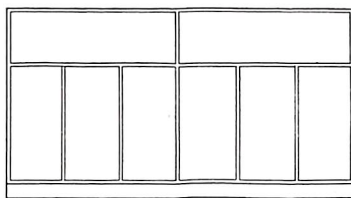
The very slight additional cost incurred by papering the walls in accordance with directions given is fully compensated by the excellent results obtained.

Panel Suggestions for Walls

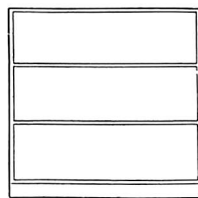
Lined with "Fibrolite" Sheets



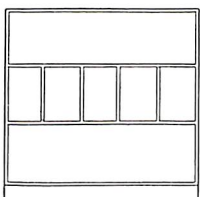
W1



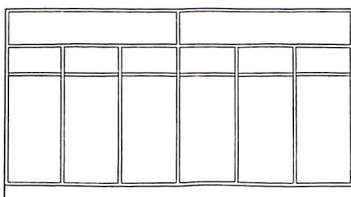
W2



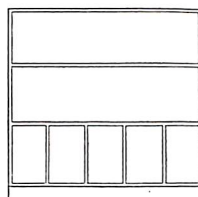
W3



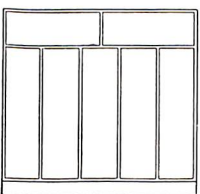
W4



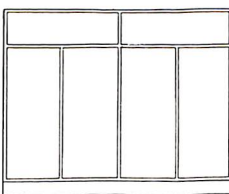
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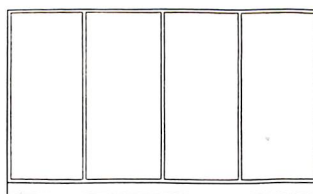
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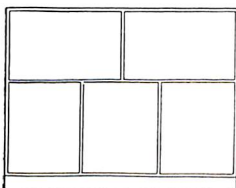
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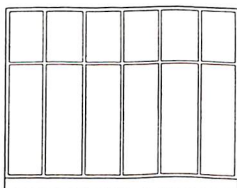
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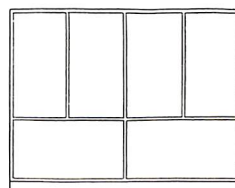
W9



W10



W11



W12

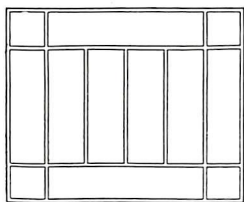
The illustrations shown above demonstrate some of the many artistic panel effects obtained with interior walls lined with "Fibrolite" Asbestos Cement Sheets.

The panel designs illustrated may be adapted for rooms of practically any size by increasing or decreasing the sizes of the panels or the number of panels.

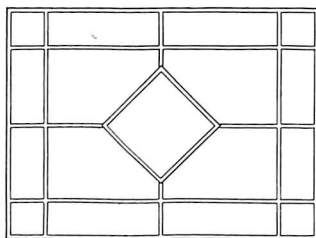
When writing for estimates, state number of the particular design required.

Panel Suggestions for Ceilings

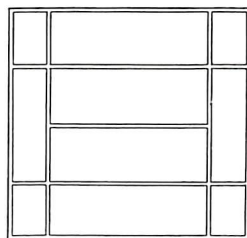
Lined with "Fibrolite" Sheets



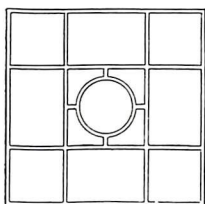
C 1



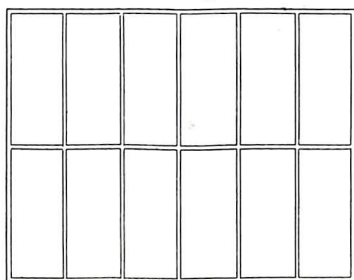
C 2



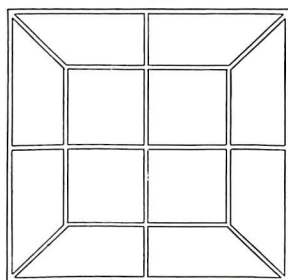
C 3



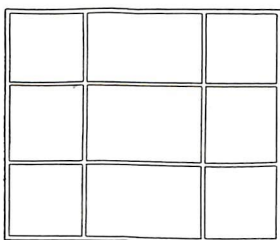
C 4



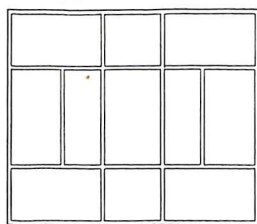
C 5



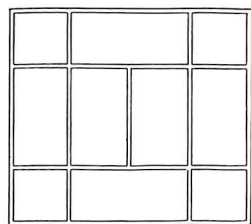
C 6



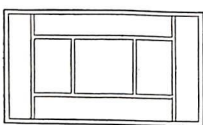
C 7



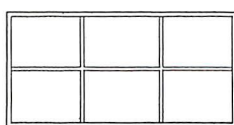
C 8



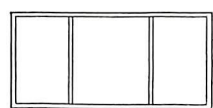
C 9



C 10



C 11



C 12

The designs shown above illustrate some of the artistic panel effects obtained with ceilings lined with "Fibrolite" Asbestos Cement Sheets.

The panel designs illustrated may be adapted for ceilings of practically any size.

Designs Nos. C.10, C.11, and C.12 are for hall or porch ceilings.

When writing for estimates please state number of particular design required.

Directions for Fixing "Fibrolite" Asbestos Cement Sheets

To Exterior Walls, Interior Walls, Ceilings,
Partitions, etc.

Manufactured in 36 stock sizes (see page 32), "Fibrolite" Sheets are easily and quickly fixed to walls and ceilings with practically no waste.

In fixing "Fibrolite" Asbestos Cement Sheets the directions given hereunder should be followed:—



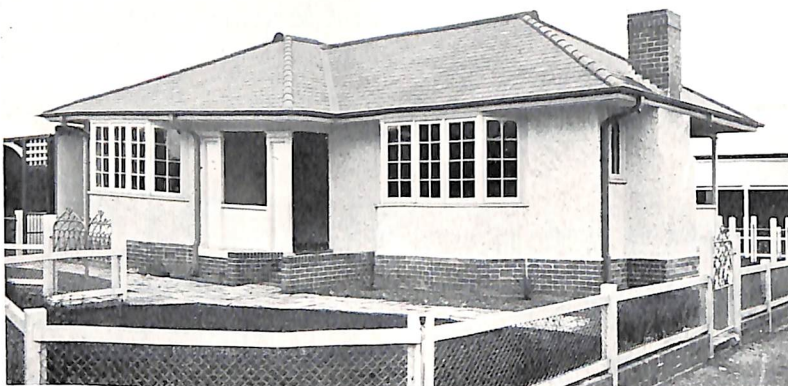
- (1) The studs and joists must be of even depth so as to form a flat surface, and should be spaced according to the width of the sheets to be used, viz.:—Sheets 4ft. and 2ft. wide, 2ft. centres; Sheets 3ft. and 18in. wide, 18in. centres—so that the spacing of the timbers works in with the sheets.
- (2) Where the joints or edges do not fall on the studs or joists an intermediate batten must be inserted to give a support behind every joint or edge.
- (3) The joints are generally covered with a wooden cover batten, or with plaster cover moulds, which are obtainable in various widths and designs. "Fibrolite" can therefore be panelled in any design required. Special battens are stocked by us for this purpose.

METHOD OF TREATING JOINTS:—For exterior perpendicular joints a strip of bituminous felt roofing should be nailed to the studs underneath the joints. For exterior horizontal joints a strip of bituminous felt roofing should be inserted on the inside of the top sheet and lapped over on the outside of the bottom sheet, all joints being covered with a cover batten of desired size.

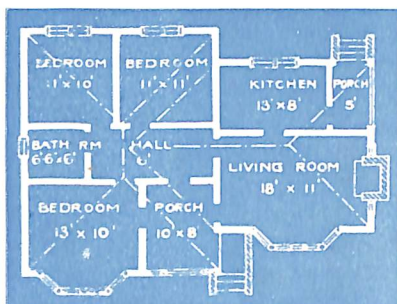
CUTTING SHEETS:—When delivered, "Fibrolite" Sheets are not fully matured and can accordingly be easily cut with an ordinary saw. A better method of cutting the sheets is to use an old knife or chisel and cut deeply along a straight edge. The sheet can then be snapped in much the same manner as with glass.

NAILING:—Galvanised "Fibrolite" Nails, with special points, readily pierce the sheets without fear of fracture. Nail the sheets every six inches, about $\frac{3}{4}$ in. from the edge and along centre of intermediate bearing. For pine timber 1in. nails are recommended, and for hardwood $\frac{3}{4}$ in. nails are sufficient.

STACKING:—When delivered, "Fibrolite" Sheets should be stacked flat on an even floor and, if possible, kept under cover until ready for use.



Directions for Applying Roughcast to "Fibrolite"



Ground plan suitable for cottage illustrated above. Estimate of cost for "Fibrolite" required for this dwelling supplied on request.

For "Fibrolite" Asbestos Cement Homes where a Roughcast Finish is preferred, this treatment may be secured by roughcasting on the reverse side of the "Fibrolite" Sheets with a mixture of cement, sand, and fine coke breeze. The reverse side of "Fibrolite" Sheets provides a perfect key to take the roughcast. In treating the sheets by this method the directions given hereunder should be followed.

The "Fibrolite" Sheets should be erected with the reverse side exposed, all joints being butted and covered with a narrow strip of $\frac{1}{2}$ in. mesh wire netting. The method

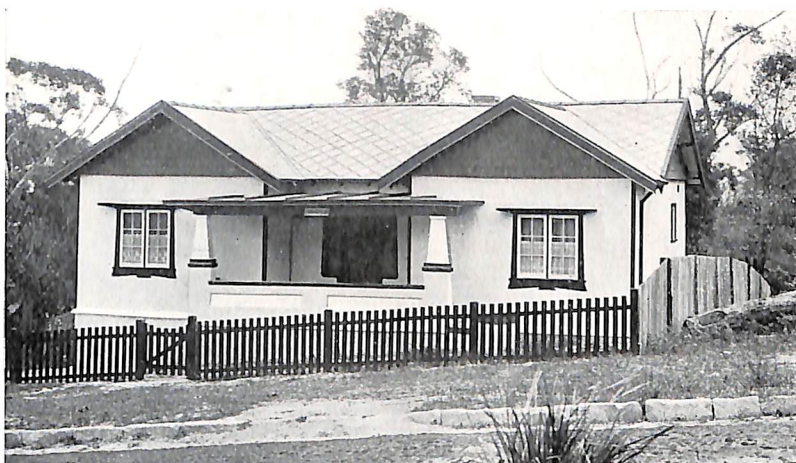
of applying the roughcast is as follows:—

- (1) Erect sheets with reverse side exposed.
- (2) Cover all joints, both horizontal and/or perpendicular, with a narrow strip of $\frac{1}{2}$ in. mesh wire netting.
- (3) Thoroughly saturate the sheets after erection with water.
- (4) Paint the exposed surface of the sheets with one good coat of neat cement and water.
- (5) After thoroughly mixing the roughcast, composed of two parts of cement, one part of clean sand, and four parts of coke breeze (by measure), apply in the usual way.

After the sheets have been roughcasted they should be covered for a few days with damp sacks or hessian to prevent drying out too quickly.

PAINTING:—If painting is desired, this may be economically carried out with "Fibro-C" Cold Water Paint, in white, cream, stone, or other colours.

Avoid Substitutes—Specify Hardie's "Fibrolite"



“Fibrolite” Asbestos Cement Slates (Hydraulically Compressed)

For roofing residences or buildings of any other type of construction “Fibrolite” Asbestos Cement Slates are unsurpassed, both as regards durability and artistic appearance. Made solely from the best Portland Cement, reinforced with tough Asbestos Fibre, “Fibrolite” Slates possess maximum strength and durability. They contain nothing to rot, rust, or corrode, are unaffected by sea air, and meet every requirement pertaining to beauty, permanence, climate, and economy.

“FIBROLITE” Slates do not taint or otherwise affect rain water that must be conserved for drinking purposes.

Used by Government Departments :

“FIBROLITE” Slates are used by Government Departments throughout the Commonwealth. The N.S.W. Railways and Tramways Department, who first tested our slates over 23 years ago, now use large quantities of “Fibrolite” Slates for roofing Station Platforms, Engine Sheds, Signal Boxes, etc. The N.S.W. Education Department and other Government Departments use large quantities of “Fibrolite” Slates for roofing.

Colours :

“FIBROLITE” Slates are made in pleasing shades of red, russet, blue-black, and light grey. The russet slates are very attractive, being mottled in beautiful tones varying in shade from a deep, rich bronze to a light russet. Fixed rectangularly, they make an imposing roof.

Sizes :

“FIBROLITE” Hydraulically-Compressed Slates are made in stock sizes of 16in. x 16in. and 12in. x 12in. for fixing diagonally, and in sizes 20in. x 10in. and 16in. x 8in. for fixing rectangularly.



“Fibrolite” Slates are Light in Weight

“FIBROLITE” Asbestos Cement Slates are considerably lighter than natural slates or ordinary clay (terra cotta) tiles. When fixed diagonally the weight of “Fibrolite” Slates on the roof is only about half the weight of natural slates and less than half the weight of tiles.

“FIBROLITE” Slates, when fixed diagonally, are not only less than half the weight of terra cotta clay tiles, but, unlike tiles, after being exposed for a few weeks, are practically non-absorbent. Thus, by using “Fibrolite” Slates there is not nearly the same strain on the roof and consequently not the same risk of the roof sagging due to excessive weight.

On account of their lightness (1,000 “Fibrolite” 16in. x 16in. hydraulically-compressed Slates, fixed diagonally, cover 1,000 square feet and weigh only about 2,700 lbs.—approximately $2\frac{1}{2}$ cwt. per square), the cost of freight on “Fibrolite” Slates by either rail or steamer is very favourable, which enables them to be used in the country at very little extra above the cost in the city.

With “Fibrolite” Slates there is practically no breakage in transit—a matter to be seriously considered with most roofings.

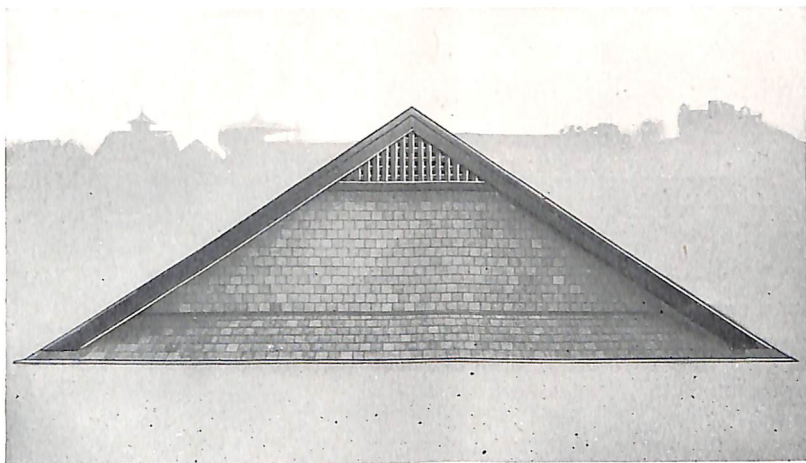
Methods of Fixing:

“FIBROLITE” Slates may be fixed by either of two methods, viz.:—

- (1) The “Hardie” Diagonal Method, as shown on cottages illustrated on pages 4, 5, 6, 7, 8, 10, and 21.
- (2) The “Rectangular” Method, similar to method of fixing natural slates, as shown on cottages illustrated on this page and page 20.

DIRECTIONS FOR FIXING SUPPLIED ON REQUEST

“Fibrolite” Slates Solve the Roofing Problem



“Fibrolite” Asbestos Cement Shingles (Non-Compressed)

“FIBROLITE” Shingles are extensively used for roofing residences, week-end cottages, summer houses, boat sheds, motor garages, etc.; for covering gable ends and window hoods; and for every purpose for which shingles are generally used. Viewed from every point, “Fibrolite” Shingles are superior to wood shingles. Their cost is surprisingly small, and their permanent durability ensures soundest economy.

Ordinary cedar, cypress, oak or redwood shingles have, at best, only a short life, and when exposed to sea air they decay rapidly on account of their becoming so saturated with salt air. Not so with “Fibrolite” Shingles. Composed of two indestructible materials, Asbestos and Cement, they may be exposed to the action of sea air, all weathers and the elements, year in and year out, without undergoing the slightest deterioration in durability.

Suitable for Walls:

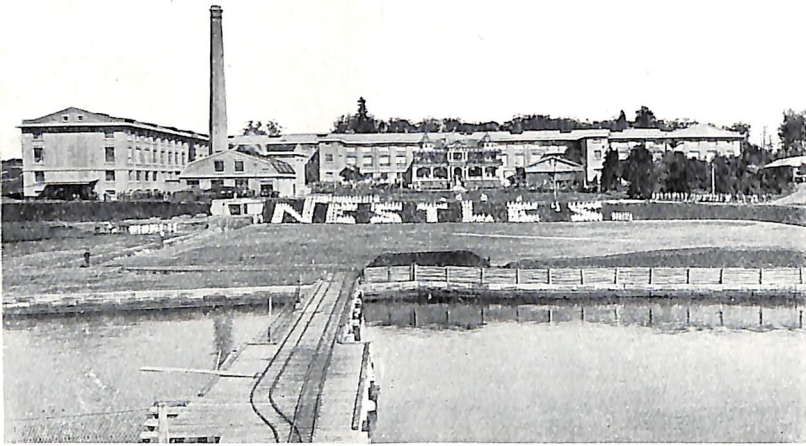
For summer houses, boat sheds, motor garages, bowling and tennis pavilions, and for all buildings where a picturesque appearance is desirable, “Fibrolite” Shingles can be used to advantage as a wall covering. They are easily fixed without waste. No painting is necessary. Fire risks are practically banished. You have an artistic wall covering at minimum cost, and one that will remain permanently durable.

Sizes:

“FIBROLITE” Non-Compressed Shingles are made in the following sizes:—

24in. x 12in.	18in. x 12in.	16in. x 8in.
20in. x 12in.	18in. x 10in.	14in. x 8in.
20in. x 10in.	18in. x 9in.	14in. x 7in.
20in. x 9½in.	16in. x 10in.	12in. x 6in.

Particulars regarding stocks available, directions for fixing, and prices supplied on request.



*Works of Messrs. Nestlé's Ltd., Abbotsford, N.S.W., roofed with
"Fibrolite" Corrugated Sheets.*

"Fibrolite" Corrugated Sheets The Non-Corrosive Roofing

"FIBROLITE" Asbestos Cement Corrugated Sheets are extensively used throughout Australia, New Zealand, and the various Pacific Islands for roofing industrial works of every description, factories, churches, public buildings, theatres, farm buildings, etc. In England, America, and on the Continent this class of material has also been successfully used for many years past, and is now gaining even greater preference over iron and other roofings.

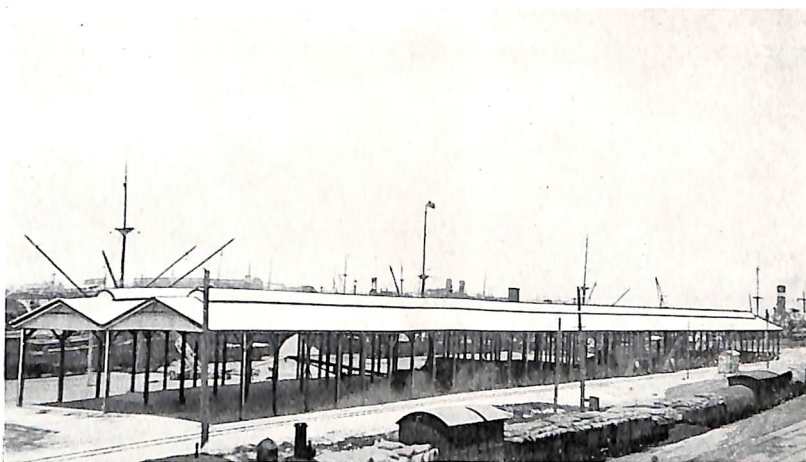
The Coolest Roof:

"FIBROLITE" Corrugated Sheets are ideal for roofing buildings in the hot interiors of tropical Australia, where living under the oppressive heat of an iron roof is almost unbearable. Many people who have used "Fibrolite" Corrugated Sheets for roofing in tropical Australia realise the comfort and coolness that is derived from living in buildings roofed with this material. More particularly does this apply to womenfolk, whose domestic duties keep them so much indoors.

Favourable Cost:

"FIBROLITE" Corrugated Roofing is not expensive, comparing very favourably in price with the best grade 24-gauge galvanised iron. Taken on a cost-per-year basis, however, "Fibrolite" Corrugated Roofing is by far the less expensive of the two materials. Heavy annual maintenance costs for painting or other protective coatings, replacement of rusted or corroded sheets, and many other incidental expenses are entirely eliminated with "Fibrolite" Corrugated Roofing.

Insist on Hardie's Genuine "Fibrolite"



Grain Shed, North Wharf, Fremantle, roofed with "Fibrolite" Corrugated Sheets.

The Ideal Roofing for Factories:

The prevalence of dampness, steam, acid fumes, and smoke in factories and industrial works soon renders an iron roof impracticable and its cost for maintenance excessive. Iron rusts or corrodes within a relatively short time, irrespective of how well it may be protected by galvanising, painting, or other protective expedients. No matter how often iron is painted, it is not practicable to paint the laps without removing the sheets, and it is at the laps that corrosion generally commences with iron. "Fibrolite" Corrugated Roofing requires no protective coatings. It is rust proof and cannot corrode. It is proof against fumes, steam, smoke, sea air, and dampness.

No Condensation:

Unlike iron, there is practically no condensation with "Fibrolite" Corrugated Roofing. In many factories roofed with "Fibrolite" Corrugated Sheets the ceilings have been eliminated owing to the freedom of "Fibrolite" from condensation.

Sea Air Proof:

"Fibrolite" Corrugated Sheets are immune to the destructive effects of sea air. This was one of the deciding factors with the Sydney Harbour Trust Commissioners in using "Fibrolite" for roofing the majority of their largest wharves.

"Fibrolite" Ridging:

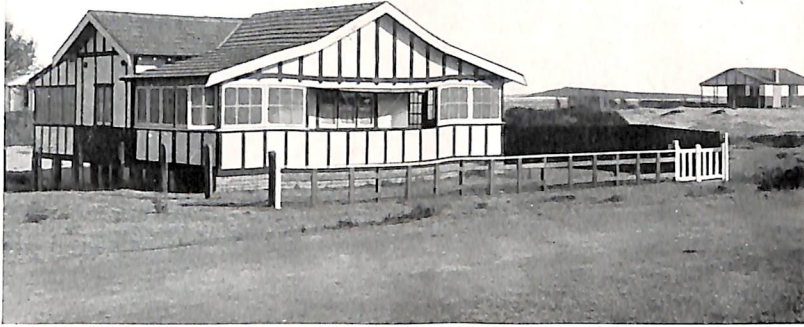
"Fibrolite" Asbestos Cement Ridging is far superior to iron, terra cotta clay, and other ridgings, possessing, as it does, all the durable and serviceable qualities of other "Fibrolite" products.

DIRECTIONS FOR FIXING SUPPLIED ON REQUEST

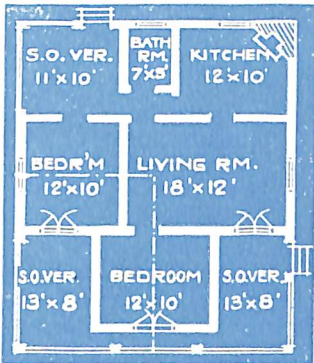


Illustrations showing uses of "Fibrolite" Asbestos Cement Sheets for Exterior Walls, Interior Walls, Ceilings, and Partitions of Buildings, etc., of various types. See page opposite.

Use "Fibrolite" for Every Building Purpose.



Build Your Seaside Cottage with "Fibrolite" Sheets



Ground plan suitable for cottage illustrated above. Estimate of cost for "Fibrolite" required for this cottage supplied on request.

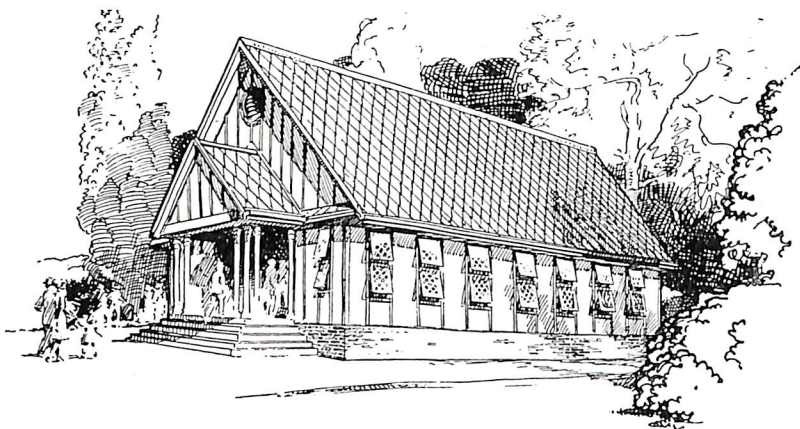
The cottage illustrated above is typical of many hundreds of these attractive week-end residences, built completely with "Fibrolite" Asbestos Cement Sheets, to be seen at every seaside and holiday resort.

By building your week-end cottage with exterior and interior walls and ceilings of "Fibrolite" Asbestos Cement Sheets, you will ensure maximum durability at bedrock cost. Maintenance costs will be practically eliminated, as "Fibrolite" does not require painting. Exposure to sea air only tends to make it stronger and more durable. Consider, too, that the fire risk will be reduced to a minimum—a big factor for consideration with cottages that are only occupied during week-ends.

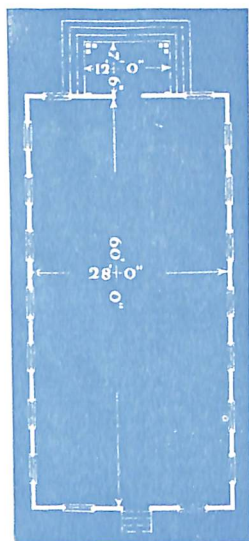
"Fibrolite" is Used for Buildings of All Types:

Illustrations given on the opposite page further demonstrate the suitability of "Fibrolite" Asbestos Cement Sheets for walls, ceilings, etc., of buildings of all types of construction. The illustrations shown are:—

- (1) Awning ceiling lined with "Fibrolite" Sheets.
- (2) Office ceilings and partitions lined with "Fibrolite" Sheets.
- (3) Picture theatre built with "Fibrolite" Sheets and roofed with "Fibrolite" Corrugated Sheets.
- (4) Butter factory built with "Fibrolite" Sheets.
- (5) Bathroom walls panelled with "Fibrolite" Sheets.
- (6) Shop and dwelling built of "Fibrolite" Sheets.



“Fibrolite” is Ideal for Churches and Halls



The above illustration demonstrates the imposing and dignified appearance of churches built with “Fibrolite” Asbestos Cement Flat Sheets and roofed with “Fibrolite” Slates.

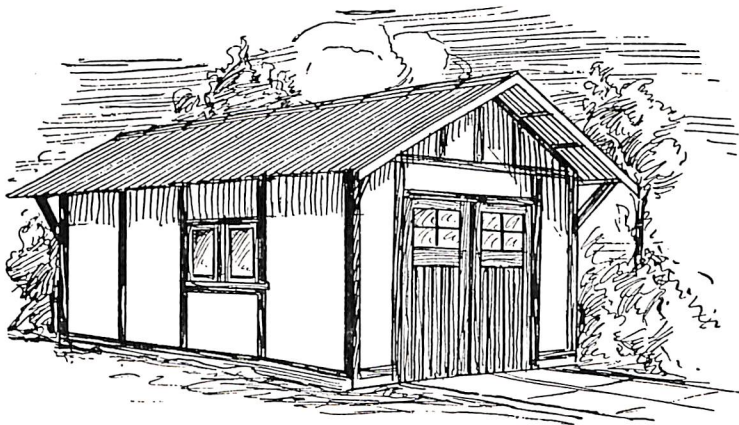
Evidence of the popularity of “Fibrolite” for buildings of this type is furnished by the large numbers of “Fibrolite” churches and halls continually being erected in all parts of Australia, New Zealand, and the various Pacific Islands.

By using “Fibrolite” Asbestos Cement Flat Sheets for exterior and interior walls and ceilings, churches, halls, picture theatres, and all similar types of buildings can be erected at the minimum of cost and with a far greater degree of durability and fire safety than could be obtained by the use of weatherboards and lining boards. Another big factor for consideration is that maintenance costs are practically eliminated.

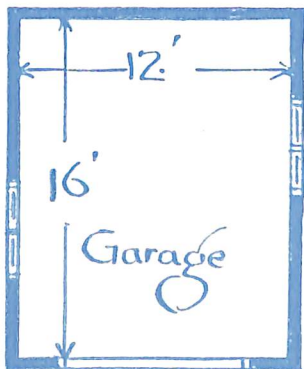
For churches, halls, etc., to be erected in the more tropical parts of Australia, or the Pacific Islands, we recommend that “Fibrolite” Corrugated Sheets be used for roofing, owing to the extra coolness obtained by the use of this material. Of importance, too, is the fact that roofs covered with “Fibrolite” Corrugated Sheets are practically noiseless during heavy rain and hail storms.

The church illustrated above is designed to accommodate approximately 150 persons. On request, we shall be pleased to supply estimate of cost of “Fibrolite” Asbestos Cement Flat Sheets and “Fibrolite” Slates (or Corrugated Sheets) required in the construction of this church.

Use “Fibrolite” for Ceilings



The "Fibrolite" Motor Garage



This "Fibrolite" Motor Garage has an excellent appearance, provides ample accommodation space and can be erected at a very reasonable cost.

Also consider that, being fire retardant, "Fibrolite" Asbestos Cement Sheets reduce to a minimum the extreme risk of fire that is always prevalent in motor garages.

Note.—We do not build motor garages. Any builder in your district will give you an estimate for building a "Fibrolite" Asbestos Cement Motor Garage.

Quantity of "Fibrolite" Required for Motor Garage as illustrated:

Exterior Walls (7ft. high)

11 Sheets "Fibrolite," 7ft. x 4ft. x 3/16in.

2 " " 7ft. x 2ft. x 3/16in.

37-1/3 square yards @

£.....

Gable Ends:

2 Sheets "Fibrolite," 6ft. x 4ft. x 3/16in.

5-1/3 square yards @

£.....

Roof:

300 "Fibrolite" Slates, 16in. x 16in.

Or 16 Sheets Corrugated "Fibrolite,"

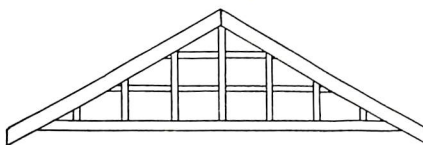
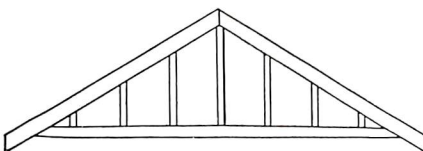
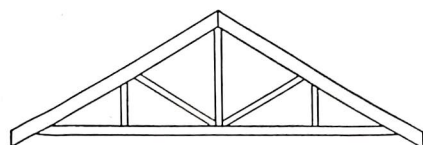
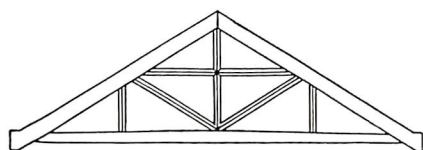
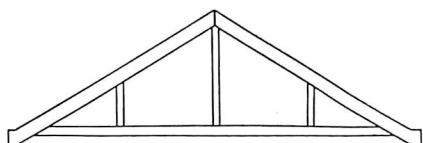
8ft. x 2ft. 7 1/2 in.

37-1/3 square yards @

£.....

PRICES SUPPLIED ON REQUEST

Gable Treatments with "Fibrolite"



It can safely be claimed that no building material has yet enjoyed the same popularity, or been more extensively used for covering gable ends than "Fibrolite" Asbestos Cement Sheets. Everywhere, in every street in every suburb and throughout the country districts, you see distinctive, picturesque gable ends covered with "Fibrolite" Sheets. You have probably noted, too, the attractive appearance these "Fibrolite" Gables give to cottage dwellings.

The diagram illustrated below shows the method of cutting "Fibrolite" Asbestos Cement Sheets for Gables so as to entirely eliminate waste.

For an average size gable, say 16ft. wide x 5ft. high, all that is necessary are two sheets "Fibrolite" 5ft. x 4ft., which would be cut in the same manner as illustrated by diagram below.

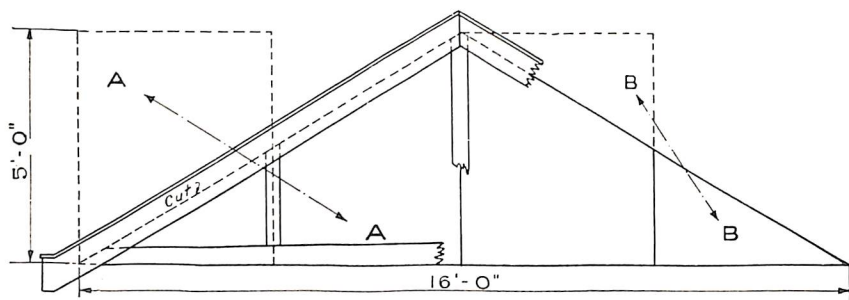


Diagram illustrating method of cutting "Fibrolite" Sheets for Gable Ends, so as to eliminate waste.

Favourable Railway Freight Charges for "Fibrolite"

"FIBROLITE" is carried by the West Australian Government Railways at very favourable rates of freight, which enables the material to be used in country districts at very little extra cost over and above that ruling in Perth and suburbs. The following tables show the different rates of freight at which "Fibrolite" is carried and the rates per ton over various distances:—

Approximate Freight Rates (Rail)

Quantity	Rate per Ton	Approximate Freight Cost per Ton over following Miles:				
		50	100	150	200	250
4 Ton Lots	"A" Rate	£ s. d. 0 11 11	£ s. d. 0 16	£ s. d. 1 0 11	£ s. d. 1 5 3	£ s. d. 1 9 0
2 Ton Lots	"B" Rate	0 15 8	1 2 4	1 8 8	1 14 11	2 0 2
1 Ton Lots	"C" Rate	1 1 9	1 11 6	2 0 11	2 10 4	2 18 3
Smaller Quantities	1st Class Rate	1 4 10	2 5 0	3 1 10	3 18 9	4 12 10

Quantity	Rate per Ton	Approximate Freight Cost per Ton over following Miles:				
		300	350	400	450	500
4 Ton Lots	"A" Rate	£ s. d. 1 12 9	£ s. d. 1 15 11	£ s. d. 1 19 0	£ s. d. 2 2 2	£ s. d. 2 5 3
2 Ton Lots	"B" Rate	2 5 5	2 9 9	2 14 0	2 18 4	3 2 7
1 Ton Lots	"C" Rate	3 6 1	3 12 8	3 19 3	4 5 8	4 12 1
Smaller Quantities	1st Class Rate	5 7 0	5 18 6	6 10 1	6 19 8	7 9 4

When "Fibrolite" Asbestos Cement Sheets are ordered in quantities of from one ton upwards the material may be forwarded unpacked and all crating charges eliminated. The saving thus effected very often covers the entire cost of freight on the consignment.

Having a Private Railway Siding running right through the Company's Works enables uncrated truck orders to be carefully stacked in the trucks under the personal supervision of our Works Manager. Smaller country orders are packed in strong crates, for which a small nominal charge is made, as shown in price list.

Sizes, Thicknesses and Weights

"Fibrolite" Flat Sheets, Slates and Corrugated Sheets

"FIBROLITE" FLAT SHEETS—Stock Sizes

"Fibrolite" Asbestos Cement Flat Sheets are obtainable in the following stock sizes and thicknesses:—

For Exterior Walls, Gables, etc. No. 5 Sheets — 3/16in. thick.	For Interior Walls and Ceilings. No. 4 Sheets — 5/32in. thick.
4ft. Wide— x 3, 4, 5, 6, 7, 8, 9, 10, 11 and 12ft. long	4ft. Wide— x 3, 4, 5, 6, 7, 8, 9 and 10ft. long
3ft. Wide— x 3, 4, 5, 6, 7, 8, 9, 10, 11 and 12ft. long	3ft. Wide— x 3, 4, 5, 6, 7, 8, 9 and 10ft. long
2ft. Wide— x 3, 4, 5, 6, 7, 8, 9 and 10ft. long	2ft. Wide— x 3, 4, 5, 6, 7, 8, 9 and 10ft. long
18 inches Wide— x 3, 4, 5, 6, 7, 8, 9 and 10ft. long	18 inches Wide— x 3, 4, 5, 6, 7, 8, 9 and 10ft. long

NOTE.—Owing to the large variety of sizes in which "Fibrolite" Asbestos Cement Sheets are manufactured, the material can be erected with practically no waste. This is an advantage obtained by specifying Hardie's Genuine "Fibrolite."

THICK SHEETS:—"Fibrolite" Sheets can be manufactured to order in any thickness up to $\frac{3}{4}$ inch, in any of the above sizes.

FOR ROOFING

"FIBROLITE" SLATES. Hydraulically Compressed.	"FIBROLITE" CORRUGATED SHEETS.
16in. x 16in. For Diagonal Fixing.	5ft. x 2ft. 7½in. 8ft. x 2ft. 7½in.
20in. x 10in. For Rectangular Fixing.	6ft. x 2ft. 7½in. 9ft. x 2ft. 7½in.
16in. x 8in. For Rectangular Fixing.	7ft. x 2ft. 7½in. 10ft. x 2ft. 7½in.

WEIGHTS AND CONTENTS OF STANDARD CRATES

MATERIAL.	Contents per Crate (approx.).	Weights of Standard Crates Packed (approx.).	Quantity per ton (approx.).	
			Crated.	Uncrated.
"FIBROLITE" Flat Sheets No. 5 (3/16in. thick)	36 sq. yds.	6½ cwt.	108 sq. yds.	124 sq. yds.
No. 4 (5/32in. thick)	46 sq. yds.	6½ cwt.	140 sq. yds.	165 sq. yds.
"FIBROLITE" Corrugated Sheets	37 sq. yds.	7 cwt.	100 sq. yds.	116 sq. yds.
"FIBROLITE" Slates (Hydraulically compressed)				
Size: 16in. x 16in. ..	100 Slates	2½ cwt.	800 Slates	900 Slates
20in. x 10in. ..	200 Slates	4 cwt.	1000 Slates	1060 Slates
16in. x 8in. ..	200 Slates	2½ cwt.	1600 Slates	1800 Slates

For estimating purposes, the above table gives the approximate number of square yards of "Fibrolite" Asbestos Cement Sheets, and the approximate number of "Fibrolite" Slates, that go to a ton of 2,240 lbs.

When Ordering Specify Hardie's "Fibrolite"

"FIBROLITE"

**ASBESTOS - CEMENT
PRODUCTS**

For Walls, Ceilings, etc.;

"FIBROLITE" Asbestos Cement Flat Sheets

For Roofing:

"FIBROLITE" Asbestos Cement Slates

"FIBROLITE" Asbestos Cement Shingles

"FIBROLITE" Corrugated Roofing Sheets

"FIBROLITE" Asbestos Cement Ridging

"FIBROLITE" Guttering and Downpipes

Miscellaneous :

"FIBROLITE" Conduits for Electric Mains

"FIBROLITE" High Pressure Water Pipes

"FIBROLITE" School Blackboards

Sole Manufacturers,

James Hardie & Coy. Ltd.

**Sydney, Melbourne, Brisbane, Adelaide, Perth, Hobart
and Wellington, N.Z.**

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